



**SPACE SHUTTLE PROGRAM**  
**Space Shuttle Projects Office (MSFC)**  
NASA Marshall Space Flight Center, Huntsville, Alabama



# **STS-105/ET-110 Flight Readiness Review**

## **External Tank Project**



August 1, 2001



**SPACE SHUTTLE PROGRAM**  
**Space Shuttle Projects Office (MSFC)**  
NASA Marshall Space Flight Center, Huntsville, Alabama



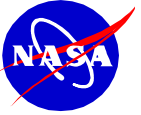
**Overview**

Presenter J. Smelser / MP31

Date August 1, 2001

Page 2

- **Limited Life Component Status**
  - All items within required life
- **No Significant Changes**
- **No Significant Processing Anomalies**
- **Waiver Status**
  - 95% Launch Probability Requirement
    - LO2 tank ogive has foam thickness below the minimum necessary to comply with the “95% launch probability” requirement (NSTS 07700, Vol. X, para 3.2.1.2.14)
      - Reduced foam thickness results in a minor decrease in launch probability due to ice formation (93.3% vs 95% required)
    - ET-110 is the last External Tank with this waiver
      - Waiver to requirement was approved for ET-102 & ETs 107-110
        - PRCBD S071290 (03/10/00)
- **Readiness Statement**



## Readiness Statement

Presenter J. Smelser / MP31

Date August 1, 2001

Page 3

**The External Tank, ET-110, is certified and  
ready for STS-105 flight pending  
completion/closure of open and planned work**